

ATTORNEY DOCKET NO. 14014.0346U1  
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of )

Egan *et al.* )

Patent No. 7,056,734 )

Issued: June 6, 2006 )

Application No. 09/762,538 )

Filed: July 19, 2001 )

For: "DIFFERENTIATION OF NON-INSULIN )

PRODUCING CELLS INTO INSULIN )

PRODUCING CELLS BY GLP-1 OR )

EXENDIN-4 AND USES THEREOF )

Confirmation No.: 1646

Examiner: Jiang, Dong

Group Art Unit: 5705

**Certificate**

AUG 10 2006

**of Correction**

REQUEST FOR CERTIFICATE OF CORRECTION  
UNDER 35 U.S.C. § 255 AND 37 C.F.R. § 1.323

ATTN: Certificate of Correction Branch  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

NEEDLE & ROSENBERG, P.C.  
Customer Number 36339

Sir:

In accordance with the provisions of 35 U.S.C. §255 and 37 C.F.R. §1.323, it is respectfully requested that a Certificate of Correction be issued to correct the above-identified patent. Two (2) copies of the Certificate of Correction are appended. The complete Certificate of Correction involves two (2) pages.

In accordance with the provisions of M.P.E.P. §1481 and pursuant to 37 C.F.R. §1.183, Applicants request that 37 C.F.R. §3.81(a) be waived to permit the correct name of the assignee to be provided after issuance of the patent.

The issue fee for this case was filed on March 13, 2006. The Name of the Assignee on the Issue Fee Transmittal (PTOL-85B) recites "The Government of the United States of

09/2006 MWOLDGE1 00000037 7056734

FC:1811

366721

100.00 Op

AUG 11 2006

America, as represented by the Secretary, Dept. of Health and Human Services, NIH.” A copy of the Issue Fee Transmittal as filed is attached hereto as Exhibit A.

In addition to the filing and recordation of an assignment transferring rights of co-inventors Josephine Egan, Riccardo Perfetti, Antonino Passaniti, Nigel Greig and Harold Holloway to The Government of the United States of America, as represented by the Secretary, Department of Health and Human Services, National Institutes of Health, an assignment transferring the rights of co-inventors Joel F. Habener and Doris A. Stoffers to The General Hospital Corporation was also filed as recorded. This assignment is recorded at Reel 017291, Frame 0089. The Notice of Recordation of the assignment to The General Hospital Corporation is attached hereto as Exhibit B. Therefore, the Name of Assignee on the Issue Fee Transmittal Form PTOL-85B should also have recited The General Hospital Corporation, Boston, Massachusetts, but was inadvertently omitted on the Issue Fee Transmittal. The failure to include the second assignee name on the Issue Fee Transmittal was an inadvertent error on the part of the applicants.

Applicants respectfully request that the petition be granted and a Certificate of Correction be issued to recite the names of both assignees as follows:

--The Government of the United States of America, as represented by the Secretary, Department of Health and Human Services, National Institutes of Health, Rockville, MD, **and** The General Hospital Corporation, Boston, MA--.

Further, it is certified that errors appearing in the above-identified patent and said Letters Patent are hereby corrected as shown below.

**Page 1, Other Publications:**

Fehmann and Habener et al., the words "proisulin biosysthesis" should be replaced with

--proinsulin biosynthesis--.

Goke et al., the word "exdenin" should be replaced with -- exendin--.

Mashima et al., the word "insullin," should be replaced with --insulin--.

Montrose-Rafizdeh et al., the word "gluccagon" should be replaced with --glucagon--.

Nuack et al., the word "Gucagon" should be replaced with --Glucagon--

and the word "gastirc" should be replaced with --gastric--.

Nuack et al., the word "glluagoon" should be replaced with --glucagon--.

Perfetti et al., the word "insullin" should be replaced with --insulin--.

Ritzel et al., the word "Pharacokinetic" should be replaced with --Pharmacokinetic--.

Thorens et al., the word "Dempstration" should be replaced with --Demonstration--.

Wang et al., (pp 4910-4917) the word "stablity" should be replaced with --stability--.

Wang et al., (pp 417-421) the word "phsyiological" should be replaced with

--physiological--.

Widmann et al., the word "phosporylation" should be replaced with --phosphorylation--

and the word "llike" should be replaced with --like--.

Willms et al., the word "exgenous" should be replaced with --exogenous--.

Yada et al., the word "cyosolic" should be replaced with --cytosolic--.

**(57) ABSTRACT** At line 6, the word "fragmets" should be replaced with --fragments--.

Column 5, line 19, the word "mmol/kg" should be replaced with --nmol/kg--.

Column 16, line 19 and 20, the word "intranimal" should be replaced with

--intra-animal--.

AUG 11 2006

Column 16, line 63, the word "ans" should be replaced with --and--.

Column 20, line 4, the word "leads" should be replaced with --led--.

Column 26, line 26, the word "seqs" should be replaced with --secs--.

Column 29, line 58, the word "heptocyte" should be replaced with --hepatocyte--.

Column 31, line 10, the word "typsin" should be replaced with --trypsin--.

Column 35, line 9, the word "ridonuclease" should be replaced with --ribonuclease--.

Column 36, line 29, the word "hippocarnpus" should be replaced with --hippocampus--.

### **REMARKS**

The requested changes are required as a result of errors upon the part of Applicants. These errors were inadvertent, made in good faith, and do not involve changes in the patent so as to constitute new matter or to require reexamination. Applicants believe that the errors are of a clerical or typographical nature. Applicants therefore respectfully request issuance of a Certificate of Correction.

A Credit Card Payment Form PTO-2038 authorizing payment in the amount of \$100.00, representing the fee under 37 C.F.R. § 1.20(a), and two copies of a Certificate of Correction are enclosed. This amount is believed to be correct; however, the Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-0629.

AUG 11 2005

ATTORNEY DOCKET NO. 14014.0346U1  
PATENT NO. 7,056,734 B1

Please issue a Certificate of Correction or a corrected patent, if the Commissioner deems that to be more appropriate and send the document to Bruce H. Becker, M.D., J.D. at the address associated with the following Customer Number:

36339

Respectfully submitted,

NEEDLE & ROSENBERG, P.C.

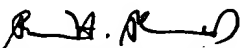


Bruce H. Becker, M.D., J.D.  
Registration No. 48,884

NEEDLE & ROSENBERG, P.C.  
Customer Number 36339  
(678) 420-9300  
(678) 420-9301 (fax)

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence, including any items indicated as attached or included, is being deposited with the United States Postal Service as first class mail in an envelope addressed to: ATTN: Certificate of Correction Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.



Bruce H. Becker, M.D., J.D.

8/4/06

Date

## PART B - FEE(S) TRANSMITTAL

EXHIBIT A

Complete and send this form, together with applicable fee(s), to: Mail

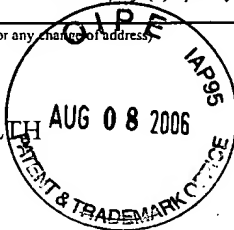
Mail Stop ISSUE FEE  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 or Fax (571) 273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

36339 7590 12/16/2005

NATIONAL INSTITUTE OF HEALTH  
 C/O NEEDLE & ROSENBERG, P.C.  
 SUITE 1000  
 999 PEACHTREE STREET  
 ATLANTA, GA 30303



Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

## Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

Bruce H. Becker, M.D., J.D. (Depositor's name)

(Signature)

3/13/06 (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/762,538	07/19/2001	Josephine Egan	14014.0346U1	5705

TITLE OF INVENTION: DIFFERENTIATION OF NON-INSULIN PRODUCING CELLS INTO INSULIN PRODUCING CELLS BY GLP-1 OR EXENDIN-4 AND USES THEREOF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$0	\$1400	03/16/2006

EXAMINER	ART UNIT	CLASS-SUBCLASS
JIANG, DONG	1646	424-093700

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☒ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 \_\_\_\_\_

2 Needle & Rosenberg, P.C.

3 \_\_\_\_\_

## 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

The Government of the United States  
 of America, as represented by the Secretary,  
 Dept. of Health and Human Services, NIH

Rockville, Maryland

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☒ Government

4a. The following fee(s) are enclosed:

☒ Issue Fee☐ Publication Fee (No small entity discount permitted)☒ Advance Order - # of Copies 12

4b. Payment of Fee(s):

☐ A check in the amount of the fee(s) is enclosed.☒ Payment by credit card. Form PTO-2038 is attached.☒ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number 14-0629 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature

Date

3/13/06

Typed or printed name

Bruce H. Becker, M.D., J.D.

Registration No.

48,884

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEB 13 2006



EXHIBIT B

UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 14, 2006

PTAS

NEEDLE & ROSENBERG, P.C.  
SUITE 1000  
999 PEACHTREE STREET  
ATLANTA, GA 30309



\*103131045A\*

By <i>[Signature]</i>	Date <i>3-20-06</i>
Reviewed	Name/Date
Scanned	

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

*BDS/TMM/BAB*

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 11/28/2005

REEL/FRAME: 017291/0089  
NUMBER OF PAGES: 7

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: 14014.0346U1

ASSIGNOR:  
HABENER, JOEL

DOC DATE: 08/17/2005

ASSIGNOR:  
STOFFERS, DORIS

DOC DATE: 11/18/2005

ASSIGNEE:  
THE GENERAL HOSPITAL CORPORATION  
55 FRUIT STREET  
BOSTON, MASSACHUSETTS 02114

MAR 20 2006

SERIAL NUMBER: 09762538  
PATENT NUMBER:

NEEDLE & ROSENBERG  
FILING DATE: 07/19/2001  
ISSUE DATE:

TITLE: DIFFERENTIATION OF NON-INSULIN PRODUCING CELLS INTO INSULIN  
PRODUCING CELLS BY GLP-1 OR EXENDIN-4 AND USES THEREOF

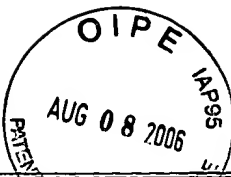
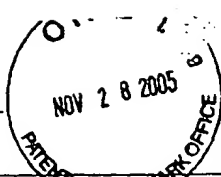
AUG 11 2006

017291/0089 PAGE 2

SHARON BROOKS, EXAMINER  
ASSIGNMENT SERVICES BRANCH  
PUBLIC RECORDS DIVISION



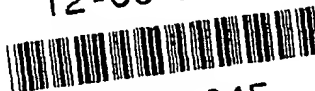
11/28/05



FORM PTO-1595 U.S. DEPARTMENT OF COMMERCE  
(Revised 3-01) Patent and Trademark Office

RECORDATION  
Pf

12-06-2005



103131045

TO THE HONORABLE DIRECTOR OF U.S. PATENTS AND TRADEMARKS  
Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): [Use numbers if there are multiple inventors and multiple dates of execution.]

- (1) JOEL HABENER  
(2) DORIS STOFFERS

Additional names of conveying party(ies) attached?

☐ YES ☒ NO

2. Name and address of receiving party(ies):

THE GENERAL HOSPITAL CORPORATION  
55 Fruit Street  
Boston, MA 02114

Additional name(s) and address(es) attached?

☐ YES ☒ NO

3. Nature of conveyance:

<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger	<input type="checkbox"/> Other
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name	

Execution Date: (1) August 17, 2005; (2) November 18, 2005

4. Application number(s) or patent number(s): 09/762,538

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s):  
09/762,538

B. Patent No.(s):

5. Name and address of party to whom correspondence concerning document should be mailed:

NEEDLE & ROSENBERG, P.C.  
Suite 1000  
999 Peachtree Street  
Atlanta, Georgia 30309

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR § 3.41): \$40.00

☐ Check enclosed

☒ Credit Card Payment Authorization Form PTO-2038 enclosed

☐ The Commissioner is hereby authorized to charge the total fee to Deposit Account No. 14-0629 (Attach duplicate copy of this form if paying by deposit account)

☒ The Commissioner is hereby authorized to charge any underpayment, or credit any overpayment, to Deposit Account No. 14-0629.

8. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

*Bruce H. Becker*  
Bruce H. Becker, M.D., J.D.  
Reg. No. 48,884

11/24/05  
Date

Total Number of Pages including Cover Sheet, Attachments, and Document: 8

I hereby certify that this correspondence, including any items indicated as attached or included, is being transmitted via facsimile transmission to: Assignment Recordation Services, Director, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450, at: (571) 273 0140, on the date indicated below.

*Bruce H. Becker*  
Bruce H. Becker, M.D., J.D.  
00000017 140629 09762538

11/24/05  
Date

12/05/2005 DB/RL

01 FC:8021

40.00 DA

AUG 11 2006

## UNITED STATES PATENT OFFICE

### CERTIFICATE OF CORRECTION

PATENT NO.: 7,056,734  
ISSUED: June 6, 2006  
INVENTORS: Josephine Egan, Riccardo Perfetti, Antonino Passaniti, Nigel Greig,  
Harold Holloway, Joel F. Habener and Doris A. Stoffers

It is certified that errors appearing in the above-identified patent and said Letters Patent are hereby corrected as shown below:

The correct names of both Assignees for this patent should appear as follows:

--The Government of the United States of America, as represented by the Secretary, Department of Health and Human Services, National Institutes of Health, Rockville, MD, and The General Hospital Corporation, Boston, MA--.

#### Page 1, Other Publications:

Fehmann and Habener et al., the words "proisulin biosynthesis" should be replaced with --proinsulin biosynthesis--.

Goke et al., the word "exdenin" should be replaced with -- exendin--.

Mashima et al., the word "insullin" should be replaced with --insulin--.

Montrose-Rafizdeh et al., the word "gluccagon" should be replaced with --glucagon--.

Nuack et al., the word "Gucagon" should be replaced with --Glucagon--  
and the word "gastirc" should be replaced with --gastric--.

Nuack et al., the word "glluagoon" should be replaced with --glucagon--.

Perfetti et al., the word "insullin" should be replaced with --insulin--.


Ritzel et al., the word "Pharacokinetic" should be replaced with --Pharmacokinetic--.

Thorens et al., the word "Dempstration" should be replaced with --Demonstration--.

Wang et al., (pp 4910-4917) the word "stablity" should be replaced with --stability--.

MAILING ADDRESS OF SENDER: Bruce H. Becker, M.D., J.D.  
NEEDLE & ROSENBERG, P.C.  
999 Peachtree Street, Suite 1000  
Atlanta, GA 30309

PATENT NO. 7,056,734 B1

No. of copies  1 of 2

Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time may vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450

AUG 11 2006

## UNITED STATES PATENT OFFICE CERTIFICATE OF CORRECTION

PATENT NO.: 7,056,734  
ISSUED: June 6, 2006  
INVENTORS: Josephine Egan, Riccardo Perfetti, Antonino Passaniti, Nigel Greig,  
Harold Holloway, Joel F. Habener and Doris A. Stoffers

It is certified that errors appearing in the above-identified patent and said Letters Patent are hereby corrected as shown below:

Wang et al., (pp 417-421) the word "phsyiological" should be replaced with --physiological--.

Widmann et al., the word "phosporylation" should be replaced with --phosphorylation-- and the word "llike" should be replaced with --like--.

Willms et al., the word "exgenous" should be replaced with --exogenous--.

Yada et al., the word "cyosolic" should be replaced with --cytosolic--.

(57) **ABSTRACT** At line 6, the word "fragmets" should be replaced with --fragments--.

Column 5, line 19, the word "mmol/kg" should be replaced with --nmol/kg--.

Column 16, line 19 and 20, the word "intranimal" should be replaced with --intra-animal--.

Column 16, line 63, the word "ans" should be replaced with --and--.

Column 20, line 4, the word "leads" should be replaced with --led--.

Column 26, line 26, the word "seqs" should be replaced with --secs--.

Column 29, line 58, the word "heptocyte" should be replaced with --hepatocyte--.


Column 31, line 10, the word "typsin" should be replaced with --trypsin--.

Column 35, line 9, the word "ridonuclease" should be replaced with --ribonuclease--.

Column 36, line 29, the word "hippocarnpus" should be replaced with --hippocampus--.

MAILING ADDRESS OF SENDER: **Bruce H. Becker, M.D., J.D.**  
**NEEDLE & ROSENBERG, P.C.**  
999 Peachtree Street, Suite 1000  
Atlanta, GA 30309

PATENT NO. **7,056,734 B1**

No. of copies  **2 of 2**

Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time may vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450

## UNITED STATES PATENT OFFICE CERTIFICATE OF CORRECTION

PATENT NO.: 7,056,734  
ISSUED: June 6, 2006  
INVENTORS: Josephine Egan, Riccardo Perfetti, Antonino Passaniti, Nigel Greig,  
Harold Holloway, Joel F. Habener and Doris A. Stoffers

It is certified that errors appearing in the above-identified patent and said Letters Patent are hereby corrected as shown below:

The correct names of both Assignees for this patent should appear as follows:

--The Government of the United States of America, as represented by the Secretary, Department of Health and Human Services, National Institutes of Health, Rockville, MD, and The General Hospital Corporation, Boston, MA--.

### Page 1, Other Publications:

Fehmann and Habener et al., the words "proisulin biosynthesis" should be replaced with --proinsulin biosynthesis--.

Goke et al., the word "exdenin" should be replaced with -- exendin--.

Mashima et al., the word "insullin" should be replaced with --insulin--.

Montrose-Rafizdeh et al., the word "gluccagon" should be replaced with --glucagon--.

Nuack et al., the word "Gucagon" should be replaced with --Glucagon--  
and the word "gastirc" should be replaced with --gastric--.

Nuack et al., the word "glluagoon" should be replaced with --glucagon--.

Perfetti et al., the word "insullin" should be replaced with --insulin--.

Ritzel et al., the word "Pharacokinetic" should be replaced with --Pharmacokinetic--.

Thorens et al., the word "Dempstration" should be replaced with --Demonstration--.

Wang et al., (pp 4910-4917) the word "stablity" should be replaced with --stability--.

MAILING ADDRESS OF SENDER: Bruce H. Becker, M.D., J.D.  
NEEDLE & ROSENBERG, P.C.  
999 Peachtree Street, Suite 1000  
Atlanta, GA 30309

PATENT NO. 7,056,734 B1

No. of copies 1 of 2

Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time may vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450

AUG 11 2006

## UNITED STATES PATENT OFFICE CERTIFICATE OF CORRECTION

PATENT NO.: 7,056,734  
ISSUED: June 6, 2006  
INVENTORS: Josephine Egan, Riccardo Perfetti, Antonino Passaniti, Nigel Greig,  
Harold Holloway, Joel F. Habener and Doris A. Stoffers

It is certified that errors appearing in the above-identified patent and said Letters Patent are hereby corrected as shown below:

Wang et al., (pp 417-421) the word "phsyiological" should be replaced with  
--physiological--.

Widmann et al., the word "phosporylation" should be replaced with --phosphorylation--  
and the word "llike" should be replaced with --like--.

Willms et al., the word "exgenous" should be replaced with --exogenous--.

Yada et al., the word "cyosolic" should be replaced with --cytosolic--.

(57) **ABSTRACT** At line 6, the word "fragmets" should be replaced with --fragments--.

Column 5, line 19, the word "mmol/kg" should be replaced with --nmol/kg--.

Column 16, line 19 and 20, the word "intranimal" should be replaced with  
--intra-animal--.

Column 16, line 63, the word "ans" should be replaced with --and--.

Column 20, line 4, the word "leads" should be replaced with --led--.

Column 26, line 26, the word "seqs" should be replaced with --secs--.

Column 29, line 58, the word "heptocyte" should be replaced with --hepatocyte--.

Column 31, line 10, the word "typsin" should be replaced with --trypsin--.

Column 35, line 9, the word "ridonuclease" should be replaced with --ribonuclease--.

Column 36, line 29, the word "hippocarnpus" should be replaced with --hippocampus--.

MAILING ADDRESS OF SENDER: Bruce H. Becker, M.D., J.D.  
NEEDLE & ROSENBERG, P.C.  
999 Peachtree Street, Suite 1000  
Atlanta, GA 30309

PATENT NO. 7,056,734 B1

No. of copies  2 of 2

Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time may vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450

AUG 11 2006